



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, ILLINOIS 60604**

DATE: JUL 17 2018

SUBJECT: CLEAN AIR ACT INSPECTION REPORT
Big River Resources Boyceville, LLC

FROM: Gregory Gehrig, Environmental Engineer
AECAB (MI/WI)

THRU: Sarah Marshall, Section Chief
AECAB (MI/WI)

TO: File

BASIC INFORMATION

Facility Name: Big River Resources Boyceville, LLC

Facility Location: N10185 370th St., Boyceville, WI

Date of Inspection: June 28, 2018

Lead Inspector: Gregory Gehrig, Environmental Engineer

Other Attendees: From Big River Resources Boyceville, LLC: Greg Tandberg, Environmental Health & Safety Coordinator; Brian Kieffer, Plant Manager; Brian Schasel, Environmental Technical Manager (via telephone only during opening and closing conferences).

Contact Email: brian.schasel@bigriverresources.com.

Purpose of Inspection: CAA Compliance

Facility Type: Ethanol production from corn

Regulations Central to Inspection: SIP, NSPS and MACT

Arrival Time: 1430 hrs

Departure Time: 1615 hrs

Facility Name: Big River Resources Boyceville, LLC

Facility Location: N10185 370th St., Boyceville, WI

Date of Inspection: June 28, 2018

Inspection Type:

- ☒ Unannounced Inspection
- ☐ Announced Inspection

OPENING CONFERENCE

- ☒ Credentials Presented
- ☒ CBI warning to facility provided

The following information was obtained verbally from facility personnel.

Company Ownership: No recent ownership change.

Process Description:

Big River Resources Boyceville, LLC (Big River) is permitted to produce 58 million gallons per year of ethanol from corn. They also produce distillers dried grains (DDGS). They have four fermentors, one beer well and one associated scrubber for pollution control. Big River uses one recuperative thermal oxidizer (RTO) to control emissions from the mash drying operations to produce DDGS. They load out denatured ethanol via both rail and tank wagon, although mostly by rail. Air and Chemical Products, Inc. operates a carbon dioxide production unit on a leased portion of the premises that utilizes the exhaust from the fermentation scrubber. This process was not inspected.

TOUR INFORMATION

EPA toured the facility: Yes

Data Collected and Observations:

FLIR video was taken of VOC emission points and possible VOC emission points. Big River was operating normally during the facility tour. The following was observed during the tour:

- Control room, where pollution control readings were collected.
- Scrubber, which was operating at a pressure differential of 9.5 inches of water, a flow of 64.2 gallon per minute of water, and additive flow rate of 2.95 gallon per hour.
- Fermentors and beer well, where VOCs were observed venting uncontrolled from the pressure release valve (PRV) on fermentor #2 and agitators.
- Distillation/molecular sieves.
- RTO, which was operating at 1,510 °F.

Field Measurements: were not taken during this inspection.

Facility Name: Big River Resources Boyceville, LLC

Facility Location: N10185 370th St., Boyceville, WI

Date of Inspection: June 28, 2018

RECORDS REVIEW

- Monthly LDAR report conducted June 12, 2018 (taken)
- Facility diagram (taken)

CLOSING CONFERENCE

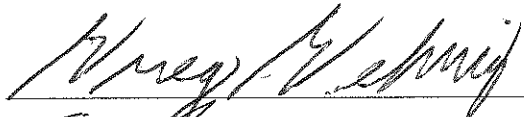
Requested documents:

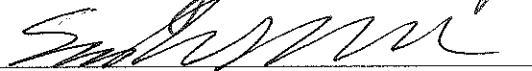
- None

Compliance Assistance: EPA indicated that Big River should fully investigate and mitigate uncontrolled venting from the PRV on fermentor #2 and agitators on top of the fermentors.

Concerns: None

SIGNATURES

Lead Inspector:  Date: 7-17-18

Section Chief:  Date: 7/17/18

Facility Name: Big River Resources Boyceville, LLC
Facility Location: N10185 370th St., Boyceville, WI
Date of Inspection: June 28, 2018

APPENDIX A: DIGITAL IMAGE LOG

1. Inspector Name: Gregory Gehrig	2. Date(s) of Inspection: June 28, 2018
3. Company/Facility Name: Big River Resources Boyceville, LLC	4. Street Address, City, State: N10185 370th St., Boyceville, WI
5. Number of Images: 2	6. Archival Record Location: CD-R labeled Big River Images 6.28.2018

Image name	Date and Time (CDT)	Description
MOV_2183	June 28, 2018 at 1521	FLIR video of distillation area.
MOV_2184	June 28, 2018 at 1551	FLIR video of components on top of Ferns and beer well. Venting from agitators and PRV on Fern #2.